

TECHNICAL INFORMATION

Effect of dietary Formi® NDF on layer Coliform faecal count

India, 2020

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INTRODUCTION

The trial was conducted at a commercial farm in North Karnataka, India. The aim of the trial was to test the acidifier Formi® NDF against a commercial breeder diet containing sodium formate on the impact of the bacterial load of the faeces.

MATERIAL AND METHODS

40,000 layer birds (BV 300) from 3 sheds, aged 47 weeks were randomly selected and the faeces collected. After 15 days, and the inclusion of both acidifiers, faeces were again collected and analysed on their Coliform count. Data were analysed using the t-test and a confidence level of 95% defined for these analyses.

Experimental period: 15 days

Positive control: 1 kg Sodium formate / t of feed

2 Trial groups: 0.5 kg and 1 kg Formi® NDF / t of feed

RESULTS AND DISCUSSION

During the 15-day trial the following data have been recorded (Tab.1):

Table 1: Coliform count (CFU/g) in the faeces of layer fed with or without different dosages of Formi NDF for 15 days

	Na-formate (1.0 kg/t)	Formi® NDF (0.5 kg/t)	Formi® NDF (1.0 kg/t)
Initial CFU/g	5.50 × 10 ⁵	5.17 × 10 ⁵	5.96 × 10 ⁵
Final CFU/g	3.66 × 10 ⁵	2.83 × 10 ⁵	3.83 × 10 ⁵
Reduction rate [%]	-33.3	-45.2	-35.8
P-level	0.06	0.007	0.02

As it can be seen from the table, the addition of Formi® NDF improved the bacterial faecal count. The usage of 500 g/t of the product led to a highly significant reduction of Coliforms in the birds by more than 45% (P=0.007), while the usage of 1 kg/t Formi® NDF reduced the Coliform count significantly by almost 38% (P= 0.02). On the other hand, the usage of 1 kg/t sodium formate did not had a significant impact on Coliforms, as the P-value was only 0.06

It can therefore be stated that only the inclusion Formi® NDF to layer diets provided a significantly healthier environment for the flocks, which will reduce cross-contamination between birds – and may positively affect breeder performance and survivability.



Effect of dietary Formi® NDF, alone or in combination with a probiotic, on broiler performance

India, 2019



INTRODUCTION

The trial was conducted at a veterinary college in Central Maharashtra, India. The aim of the trial was to test the acidifier Formi® NDF against a commercial broiler diet containing no acidifier.

MATERIAL AND METHODS

180 birds were randomly allocated into 3 groups, with 60 broilers each. The trial was terminated after 42 days. Data were analysed using the t-test and a confidence level of 95% defined for these analyses.

Experimental period: 42 days

Negative control: no acidifier

2 Trial groups: 2.0 kg Formi® NDF / t; 2.0 kg Formi® NDF + 200 g probiotic / t of feed

RESULTS AND DISCUSSION

During the 42-day trial the following data have been recorded (Tab.1):

Table 1: Comparison of broiler performance between Formi NDF, a combination of Formi NDF and a probiotic as well as a Negative control (42 days)

	Negative Control	0.2% Formi® NDF	0.2% Formi® NDF + 0.02% Probiotic
Body weight gain [g]	2162±35	2223±42	2257±17
Feed consumption [g]	3850±122	3814±48	3872±74
FCR	1.78	1.72	1.72
DM digestibility [%]	62.5±0.9	64.5±0.8	65.0±0.8
N-Retention [%]	69.3±1.9	71.4±2.1	72.5±2.3

As it can be seen from the table, the addition of Formi® NDF improved the performance of broiler significantly. Body weight gain was increased by 2.8%, while the feed efficiency was improved by 3.4%. The nitrogen retention, an indicator for protein digestibility, was enhanced by 3.0%. The extra addition of a probiotic led only partially to a further enhanced performance.

It can therefore be stated that especially the inclusion Formi® NDF to broiler diets positively affects their performance and thus the overall productivity.

